

CLAIMS

1. A fiber bundle for hair use comprising a mixture of 10 to 90 parts by weight of human hair (A) and 90 to 10 parts by weight of 5 polyester fibers (B) having an LOI-value of at least 25, a thermal shrinkage ratio at 180°C of at most 5 %, and a single fiber fineness of 20 to 100 dtex.
2. The fiber bundle for hair use of Claim 1, wherein the 10 component (B) is polyester fibers formed from a composition obtained by melt-kneading polyalkylene terephthalate and a copolymered polyester comprising polyalkylene terephthalate as the main component (C) with a phosphorus flame retardant (D) and/or a bromine flame retardant(E).
- 15 3. The fiber bundle for hair use of Claim 1 or 2, wherein said component (C) is at least one of a polymer selected from the group consisting of polyethylene terephthalate, polypropylene terephthalate, polybutylene terephthalate, a polyester in which ethylene glycol ether of bisphenol-A is copolymerized, a polyester in which 1,4-cyclohexane 20 dimethanol is copolymerized, a polyester in which dihydroxyethyl 5-sodium sulfoisophthalate is copolymerized, a polymer alloy of polyethylene terephthalate and polyethylene naphthalate, a polymer alloy of polyethylene terephthalate and polyarylate, and a polymer alloy of polyethylene terephthalate and polycarbonate.
- 25 4. The fiber bundle for hair use of Claim 1 or 2, wherein said component (D) is at least one compound selected from the group

consisting of a phosphate compound, a phosphonate compound, a phosphinate compound, a phosphine oxide compound, a phosphonite compound, a phosphinite compound, a phosphine compound, a condensed phosphoric ester compound, a phosphoric ester amide
5 compound, and an organic cyclic phosphorus compound.

5. The fiber bundle for hair use of Claim 1 or 2, wherein said component (E) is at least one compound selected from the group consisting of a bromine-containing phosphoric ester flame retardant, a
10 brominated polystyrene flame retardant, a brominated benzylacrylate flame retardant, a brominated epoxy flame retardant, a brominated polycarbonate flame retardant, a derivative of tetrabromobisphenol-A, a bromine-containing triazine compound, and a bromine-containing isocyanuric acid compound.

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6. The fiber bundle for hair use of Claim 1 or 2, wherein said component (B) has fine projections on the surface of the fiber comprising a mixture of organic fine particles (F) and/or inorganic fine particles (G).

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7. The fiber bundle for hair use of Claim 6, wherein said component (F) is at least one selected from the group consisting of polyarylate, polyamide, fluorine resin, a silicone resin, a crosslinked acrylic resin, and crosslinked polystyrene.

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8. The fiber bundle for hair use of Claim 6, wherein said component (G) is at least one selected from the group consisting of calcium carbonate, silicon oxide, titanium oxide, aluminum oxide, zinc

oxide, talc, kaolin, montmorillonite, bentonite, and mica.

9. A head decoration product, which is obtained by processing the fiber bundle for hair use of any one of Claims 1 to 8.

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10. The head decoration product of Claim 9, which is a wig or a hair accessory.